



Digital HD Cable Receiver TVS-5000C Optional USB PVR

Operation Manual

Version 1.00-E

SAFETY INSTRUCTIONS



Read ALL the safety instructions before first use of your STB.

Power source

The STB power cord needs to be plugged into a working AC outlet.

Safety considerations

Position ALL leads so that they are not likely to be walked on or pinched by things placed on or against them.

Do not use the STB in wet or damp conditions. Do not allow the STB to get wet, i.e. dripping or splashing, as this may be dangerous. Do not place water filled object, such as vases, on top of the STB.

Make sure that no naked flame sources, such as candles, are placed on top of the STB.

Ventilation

Any slots and openings on the STB are for ventilation. **DO NOT COVER OR BLOCK THEM** as it could lead to overheating.

NEVER let children push anything into the holes or slots on the case.

Servicing

There are no user serviceable parts in your STB. If service is needed:

CALL COAXIAL CABLE TV AT 734-1424 IF YOU HAVE ANY SERVICE ISSUES

Remote Control Battery Disposal

Please ensure batteries from the remote are disposed of safely.

SERIOUS WARNING!

NEVER power off when the STB is recording, file reading, or playing back a video.

It's possible to damage the USB drive if your STB has an external USB drive attached.

.

The USB port of TVS-5000C can provide standard power to external USB drive.

DO NOT ADD ANY USB POWER ADAPTER TO STB!!!

INDEX

1. GETTING STARTED.....	6
1.1 USE REMOTE CONTROLLER	6
1.2 REAR PANEL.....	7
1.3 CONNECTING TO TV.....	8
1.4 REMOTE CONTROLLER.....	8
2. BASIC FUNCTIONS.....	9
2.1 POWER ON/POWER STANDBY	9
2.2 VOLUME UP/DOWN AND MUTE	9
2.3 TV /RADIO SWITCH	9
2.4 CHANGE CHANNELS	9
2.5 DISPLAY CHANNEL EPG INFORMATION.....	9
2.6 PREVIOUS CHANNEL RECALL	10
2.7 SWITCH LANGUAGE OF PROGRAMS	10
2.8 EPG (ELECTRONIC PROGRAM GUIDE)	10
2.9 TELETEXT	10
2.10 SUBTITLE (CLOSED CAPTIONING).....	11
2.11 FAVORITES.....	11
2.12 RECORDING (WILL ONLY WORK WHEN EXTERNAL USB DEVICE IS ATTACHED).....	11
2.13 MUSIC/MOVIE/PVR PLAYBACK	13
2.14 DEFAULT PASSWORD	13
3. MAIN MENU.....	14
4. TV/RADIO.....	15
5. SYSTEM SETTING.....	15
5.1 INSTALLATION	16
5.1.1 NIT Search.....	16
5.1.2 AUTO Search.....	16
5.1.3 Manual Search	16
5.2 CH MANAGER.....	16
5.2.1 TV/Radio Manager	17
5.2.2 Delete All.....	17
5.3 PARENTAL RATING.....	18
5.3.1 TV/Radio Lock	18
5.3.2 Change PIN Code.....	18
5.4 ADVANCE SETTING.....	19
5.4.1 Language Setting.....	19
5.4.2 Audio Setting	19
5.4.3 Display Setting.....	20
5.4.4 Video Setting	20
5.4.5 Aspect Ratio Setting	20
5.4.6 PVR setting	21
5.4.7 PVR File Style	21
5.4.8 PVR File Size.....	21

5.4.9 Preferred Storage.....	22
5.4.10 PVR File Delete	22
5.4.11 Timeshift	22
5.4.12 Timeshift Length.....	23
5.4.13 Timeshift to Record	23
5.4.14 Zoom Mode.....	23
5.4.15 Factory Reset	24
5.5 SYSTEM INFO	24
5.6 SIGNAL TEST	24
5.7 CA SETTING.....	25
5.7.1 Subscription right.....	25
5.7.2 Parental control	25
5.7.3 Change CA PIN	26
5.7.4 CA message	26
6. BOOK MANAGER.....	26
7. ENTERTAINMENT.....	27
7.1 BOX MAN	27
7.2 BURNING TETRIS.....	27
7.3 HIT RAT	28
7.4 GO BANG	28
7.5 SODOKU	29
8. HELP.....	29
9. MEDIA PLAYER.....	30
9.1 BASIC FUNCTIONS.....	30
9.2 KEY DEFINITION	30
10. APPENDIX A TECHNICAL SPECIFICATION.....	32
11. APPENDIX B TROUBLESHOOTING.....	33

1.2 REAL PANEL

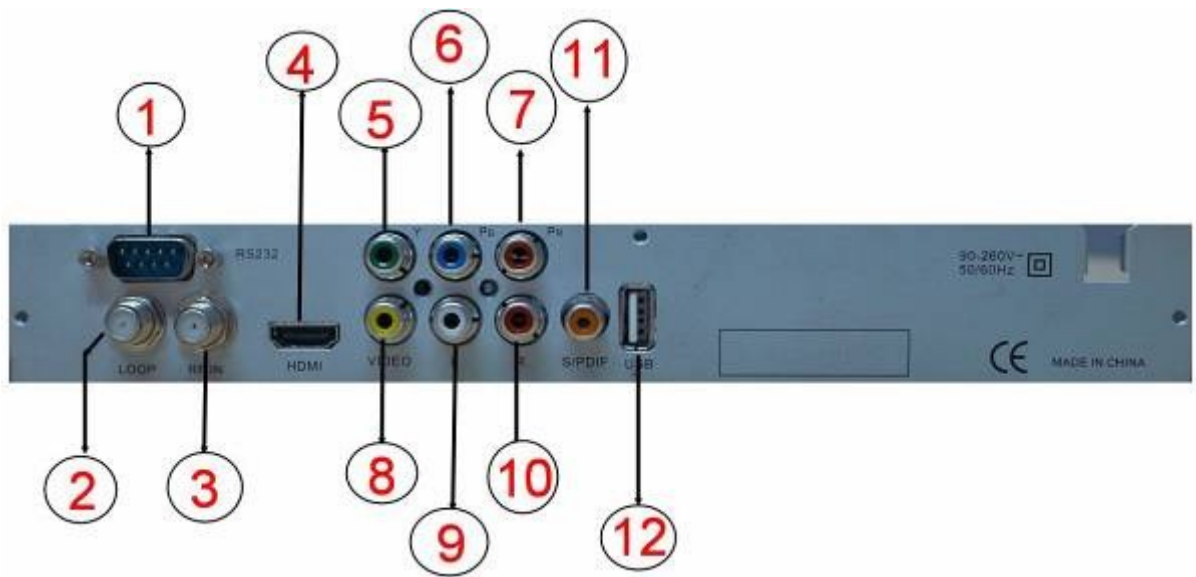


Figure 1-1-1 Rear panel of TVS-5000C

- ♂¹ RS232 : RS232 port , this port is used for engine.
- ♂² LOOP: **DO NOT USE!**
- ♂³ RF IN : Connect CABLE to this connector
- ♂⁴ HDMI : High Definition Multimedia Interface
- ♂⁵ ♂⁶ ♂⁷ YPbPr : YP_BP_R is the analog video signal carried by component video cable in consumer electronics. The green cable carries Y, the blue cable carries P_B and the red cable carries P_R.
- ♂⁸ Video : RCA Video port, the yellow cable carries the video;
- ♂⁹ ♂¹⁰ L,R : Left Audio port, the white cable carries the Left port; Right Audio port, the red cable carries the right audio.
- ♂¹¹ S/PDIF: S/PDIF output, this port can connect HIFI with STB.
- ♂¹² USB: USB2.0 master port to connect External USB mass storage device

1.3 CONNECTING TO TV

Note: Before connect this Set Top Box (STB) to other devices, please SHUT DOWN all devices.

Connect the STB with the HDMI cable from the STB to the HDMI jack on the TV set;

Connect a coaxial cable to the set top box "RF IN" connector on its rear panel. "RF IN" connector is the second one from the edge of STB. STB will not work if on wrong connector.

Plug the set top box's power cord into the AC power socket on the wall. The set top box starts in a normal state of "playback the program that it received".

USB: USB master, connecting with External USB mass storage.

S/DIF: This port can connect HIFI with STB.

IF the STB does "NOT" show a picture – make SURE the TV is set to the proper input – it will be HDMI

1.4 REMOTE CONTROLLER

1. **POWER:** Turns the receiver power on/power standby.
2. **MUTE:** Mutes the current channel audio.
3. **Numeric Key (0-9):** You can change channel by input the channel number directly.
4. **FAV:** Press to display the favorite List.
5. **RECALL:** Return previous program
6. **TV/RADIO:** In TV mode, toggle switch between TV and Radio. In media mode, PLAY function.
7. **MUSIC:** Hot key to play compatible music from USB drive.
8. **MOVIE:** Hot key to play compatible movie from USB drive.
9. **PVR:** Hot key to play recorded programs from USB drive.
10. **||:** Play/Pause
11. **□:** Stop
12. **>>:** Forward.
13. **<<:** Backward.
14. **|<:** Previous
15. **>|:** Next.
16. **INF (INFO):** If you press the **INF** button once, the **EPG** data or Recording information for the highlighted channel will display. Pressing **INF** will remove the display. This works the the full screen **EPG** also.
17. **Pg Up:** Page up.
18. **Pg Dn:** Page down.
19. **REC (<<):** In TV mode, record current channel to the USB device. In the media mode, previous track.
20. **UP Arrow:** Move Up in menu. Channel up.
21. **LEFT Arrow:** Move Left in menu. Decrease the audio output level.
22. **DOWN Arrow:** Move Down in menu. Channel down.
23. **RIGHT Arrow:** Move Right in menu. Increase the audio output level.
24. **QUIT:** Close current active menu and go back to up menu..
25. **MENU:** Press to access the SYSTEM MENU.
26. **EPG:** The EPG menu of the current channel is displayed.
27. **MAIL:** Hot key to enter email menu. Messages from cable company ONLY!
28. **TEXT:** Hot key to enter Teletext menu. (Not used in USA)
29. **SUBT:** Used to turn Closed Captioning **ON** or **OFF**
30. **TRACK:** Sets the current channel audio to stereo/left-mono/right-mono.
31. **LANG:** Choice the program's voice language (If SAP is available)
32. **PTV:** Reserved
33. **MOSAIC:** Reserved
34. **FILE:** Hot key to enter storage directory
35. **EDIT:** Reserved
36. **TIMER:** Reserved
37. **HELP:** Reserved
38. **F1-F4:** Function key, reference from menu
39. **OK:** Confirm key.



Figure 1-2
Remote Control

2. BASIC FUNCTIONS

2.1 POWER ON/POWER STANDBY

The set top box should be connected in the sequence below in order to protect it from damage.

Connect cable to STB

Connect STB to TV set

Connect AC power plug to the STB

Power ON (From the remote)

When the STB is in "STANDBY" mode (will show time on front of STB), press **POWER** on remote to power on.

Power OFF (From the remote)

When it is running, pressing **POWER** on the remote will enter into the "STANDBY" mode.

2.2 VOLUME UP/DOWN AND MUTE

Press  or  to adjust volume when system is in normal playing mode; and it will show volume bar on the screen;

Press **MUTE** to enter mute mode when normally playing and repress **MUTE** to back the normal state.

2.3 TV /RADIO SWITCH

Press **TV/RADIO** to switch program when it is in full screen; There are currently no radio channels.

You can switch between TV and Radio via program management.

2.4 Change Channels

Press key  or  to switch to the previous or next program.

If there are favorite programs that have been set up, just press **FAV** key to enter Favorite program list and press key  or  to switch to the previous or next of your favorite program.

2.5 DISPLAY Channel EPG Information

Pressing the **INF** key will show the program information for the current program whether you are just watching a regular channel, in the EPG, or Recording. Pressing **INF** a second time will remove the display.

2.6 PREVIOUS CHANNEL RECALL

Press **RECALL**, with no other menus up, to return to the previous channel.

2.7 SWITCH LANGUAGE OF PROGRAMS.

Press **LANGUAGE** to switch the language audio of current program. (If SAP available)

2.8 EPG (ELECTRONIC PROGRAMS GUIDE)

Press key <EPG> on the remote controller to enter EPG page to know more about the programs to be played. The EPG menu describe as above:

Area 1 shows video ;

Area 2 shows channel list, press or to switch between channels;

Area 3 shows key help to operate current menu.

Area 4 shows EPG event list, press or to switch between event,;

Area 5 shows time and date list with week and year;



Figure 2-2 Daily EPG menu

In area 4 press **INFO** to show the current detailed program information ;

Press or to switch between Area 2 and Area 4. You can also just press in the channel number.

2.9 TELETEXT (Not used in USA)

If you want to watch teletext, please press <TEXT> on the remote controller to enter Teletext page.

Input three digits to go to corresponding page you want.

Press Up to go to the previous page; while press key <Down> to go to the next page.

Press or to back for 100 pages; while press Right to advance for 100 pages.

Press **QUIT** key to exit from Teletext.

2.10 SUBTITLE (Closed Captioning)

When resetting STB, the default is Closed Captioning is on. To change this, press the **SUBT** key and select Either “**OFF**” or “**CC**”

Press  or  key to choose whether to open CC, press  or  key move upward and downward to choose CC, (CC will be where 'English' is in the pictures below).



Figure 2-3 CC Select/off

2.11 FAVORITES

Press **FAV** key to enter FAV menu. This will show channels that have been made a Favorite.

Note: There are no FAV settings in the Radio channel

2.12 RECORDING (Will only work when external USB device attached)

Test USB device with Timeshift recording FIRST. If no errors will work properly for recording.

There are three ways to record TV program. They are **Real Time Recording**, **EPG Recording**, and **Schedule Recording**. ****NOTE:YOU CAN ONLY RECORD ONE CHANNEL AT A TIME!**** Before you record a TV program, a pop-up caution message will appear if no USB device is attached.

Real Time Recording

In viewing mode press the **REC** button, you can record current TV program into selected device.

This is **Real Time Recording**. ****NOTE:You can ONLY record the channel you are watching.****

During recording, it will show message “**REC**”. Press “”, to stop recording.

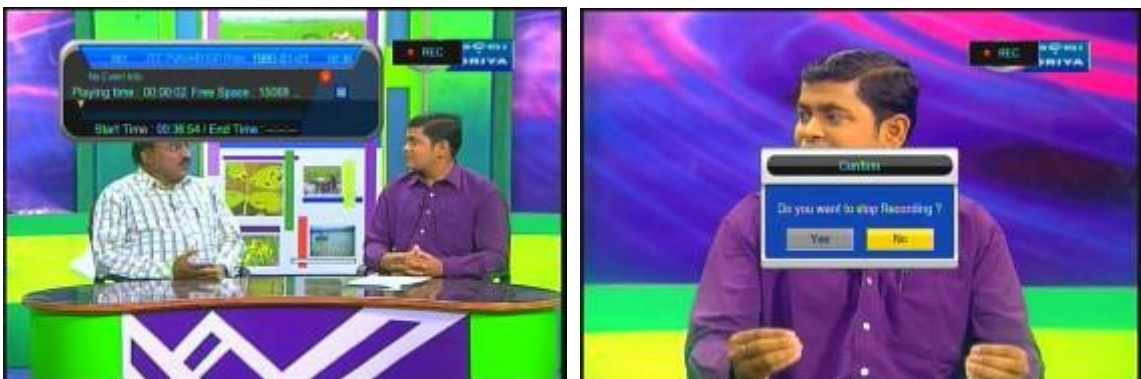


Figure 2-4 Recording start and stop

To “Timeshift” record (pause live TV) you must have a USB device connected to the unit. To start the “Timeshift” recording, just press the “Play/Pause” button to start the recording. Pressing the “Play/Pause” button again will start playing from the time you started recording. **NOTE:**It is best to try this BEFORE recording to see if USB device will work properly.

When the STB is recording, press the “**REC**” button and a duration setting menu appears, you can set how long you are going to record.



Figure 2-5 Recording duration setting

EPG Recording

In EPG event list window, you can press **RED** key to book current program. You can press the **RED** key again to disable the booking.

If you want to manage the record list, please go to **BOOK MANAGER Menu** in chapter 6.



Figure 2-6 EPG Recording

**** NOTE:** You can **ONLY** record one program at a time.
DO NOT PRESS THE “OK” KEY when on a booked program.

2.13 MUSIC/MOVIE/PVR PLAYBACK – MUST have USB drive attached

Press the hot key of Music/Movie/PVR on the remote, the receiver will enter the Music/Movie/PVR playback menu, in order to play the file which you want a menu will appear to guide you in choosing the file directory and the media file on your USB drive

Move the cursor by using  or ,  or  key, and press **OK** to confirm and enter the playback menu.

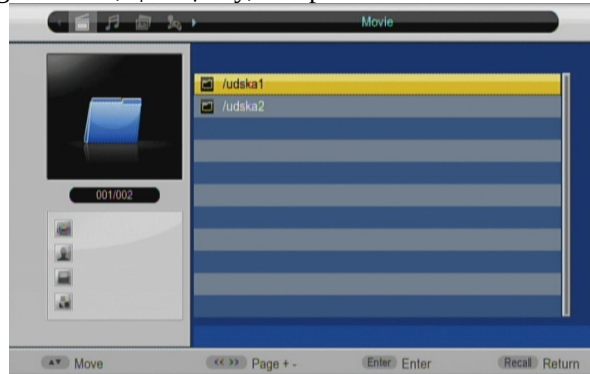


Figure 2-7 Playback menu

When menu is appeared on the screen, you press the **MENU** key or **QUIT** key to return to the up-level menu.

If you press the **QUIT** key to return to the up-level menu.

In playback menu, the hot keys are “<”, “>”, “|<”, “|>”, “”, “||” are valid.

2.14 DEFAULT PASSWORD

The Access Password is default to 123456. REMEMBER YOUR NEW PASSWORD!

There is no way you can reset the password if you forget the new password!

3. MAIN MENU

The STB contains a facilitated user interface, this function is to make it easy to access all the device functions.

Operation Steps: Press **MENU**, you can see this main menu.



Fig 3-1 Main Menu

When no menu is shown on the screen, you press the **MENU** key to display the main menu. The focus (highlighted item) will stop in the first item until the user selects it.

When menu appears on the screen, you press the **MENU** key or **QUIT** key to return to the up-level menu.

OK: When you press the key that will go to current sub-level menu item highlighted.

Left/Right: The focus will move left or right.

Up/Down: The focus will move up or down.

QUIT: Close all menus.

The functions of the main menu are:

Channel List	SELECT TV CHANNELS
TV	Select TV channels
RADIO	Select Radio channels
EPG	View the Electronic Program Guide
Multimedia	Multimedia files playing menu, it include the Movie, Music, Photos, PVR on currently attached USB drive
Chn Rec	Record current TV program which is playing
SETTING	CH Search, CH Edit, Language, Parameters, Audio Track, Password, Default, STB upgrade

Hint: When you are in the Main Menu, press the **QUIT** or **MENU** button to quickly exit the Main Menu.

Press the **QUIT** button to return to the previous menu when you are in the sub-menu.

4. TV/RADIO (Not used)

The **TV/RADIO** channel menu allows you to browse all channels saved in the STB. Press the  or  button to select the TV menu option in the main menu. Press the  button and the TV channel browser will be displayed as shown in Figure



Figure 4-1 TV list menu

Press the  or  button to browse channels. When staying on a certain channel over 2 seconds, it will switch to the selected program automatically. Press **OK** button to switch to the selected channel and return to TV viewing.

Hint: You can quickly enter the TV channel menu by pressing the **OK** button on the remote control.

5. SYSTEM SETTING

The **System Setting** menu option provides all the installation and setup of the STB system, including channel edit, language, parameters, audio track, password setting, restore default setting, and even the system's (STB's) software upgrade. The SETTING function is described as the table below:

Installation	Search channel by All Search, Auto Search, Manual Search
CH Manage	Channel Edit, Blocking
Parental Rating	Parental Lock
Advance Setting	Video, Audio, CH Update, Time Zone, Language
System Info	System information.
Signal Test	Signal test information.
CA Setting	CA information settings.
Book Manager	Book confirm/ Book del
Entertainment	Games
Help	Will describe each sections function

Select the **SETTING** option in the main menu. Press the  button and then the **SETTING** menu will be displayed, as shown in Figure

Press the  or  button to select a menu option, and press the  button to enter this menu option.

5.1 CHANNEL INSTALLATION (DO NOT USE UNLESS INSTRUCTED TO BY CABLE SUPPORT)

The **Installation** menu in the **System Setting** menu is used for searching channels. Select the Installation menu option in the **System Setting** menu. Press the **OK** button and the Installation menu will be displayed, as shown below. **NOTE: Doing any of the below can leave STB with NO channels!**

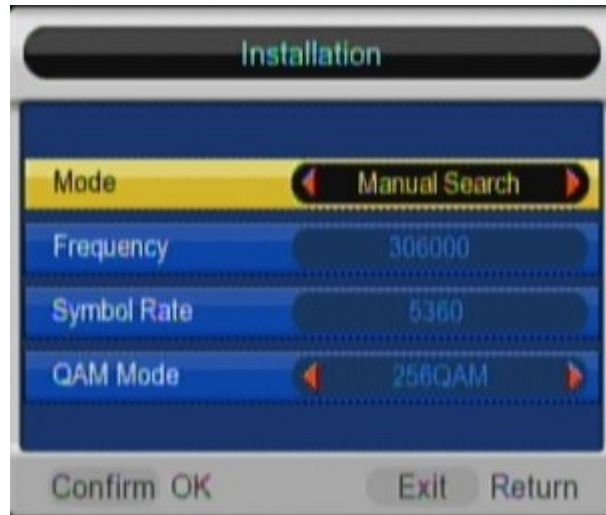


Figure 5-2 CH search menu

The Search mode includes **NIT Search**, **Auto Search** and **Manual Search**. Press or to select the installation mode. **NOTE: If you see black bars – there is NO signal to STB.**

5.1.1 NIT Search (Use this and change to frequency provided - 079000)

The **NIT Search** will find the NIT table in the network, then search all the valid channels set by provider. This is the **ONLY** way for searching to restore channels.

5.1.2 AUTO Search (DO NOT USE)

The **Auto Search** allows you to set the first channel center frequency and the last channel center frequency, as well as the frequency step between two channels. Then the STB decoder will scan all the channels in the range by the step of the BW which you setting.

5.1.3 Manual Search (DO NOT USE)

WARNING: The Manual Search should be used for test purposes. Otherwise, the order of the channel sorting will be different from the operator's channel map. **CALL 734-1424 if you have any questions**
The operation of **Manual Search** is the same as the **NIT search**.

5.2 CH MANAGER

The **CH Manager** menu option provides management of the channels stored in STB, The **CH Manager** function is described in the table below: **NOTE: Doing any of the below can leave STB with NO channels!**

TV	Favorite Set, Enable/Disable Channel and Adjust Channel position
Radio	The operation and function is same as TV
Delete all	Delete all channel in STB

5.2.1 TV/Radio Manager

In **TV Manager** setting menu, press **OK** button on remote control, the line will be flashing, press **Left** or **Right** will move the channel position on the list.

Press **Left** or **Right** will set the channel to **FAV/SKIP/DEL** status, press **OK** to confirm the setting.

FAV: Set the channel into **FAV** list.

SKIP: The channel can be show on channel listing table, but it will be skipped when surfing channels.

DEL: Delete the channel and the channel won't appear on channel list table. If delete, you want to take back the channel, you need do a rescan!



Figure 5-3 Channel manager menu

5.2.2 Delete All (Will delete ALL channels!)

Delete All

Press the **OK** button. A warning Dialog will be displayed, if you choose **OK** on the dialog, all channel in STB will be deleted. The STB will not work until channels are rescanned. **CALL 734-1424 for directions**



Figure 5-4 Delete All

5.3 PARENTAL RATING

The CH Manage menu option provides management of the channels stored in STB, The CH Manage function is described as the table below:

TV	Lock/Unlock the TV channel
Radio	Lock/Unlock the Radio channel
Change PIN code	Change the password of parental access

The default Access Password is 123456.

5.3.1 TV/Radio Lock

TV LOCK

Press button **OK**, the  will be displayed; this means the channel will be parental locked. Press button **OK** again, the  will disappear, which means the current channel is unlocked. Press button **Left** or **Right** to move the cursor.

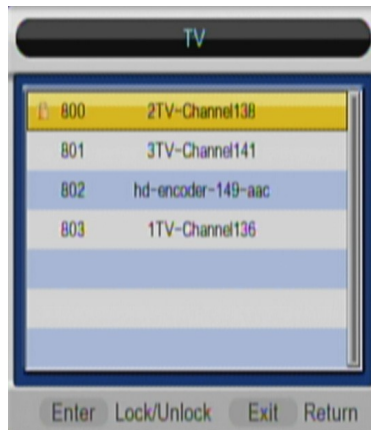


Figure 5-5 Parent Lock

RADIO LOCK

Note: The Audio Channel Edit menu setting is the same as the TV channel edit.

5.3.2 Change PIN Code

Press **OK** to enter the Password menu option in the **Parent Lock** menu and the Password dialog will be shown as Figure 5-6. The Password change option allows you to change the password of the STB. **REMEMBER THE NEW PASSWORD!**

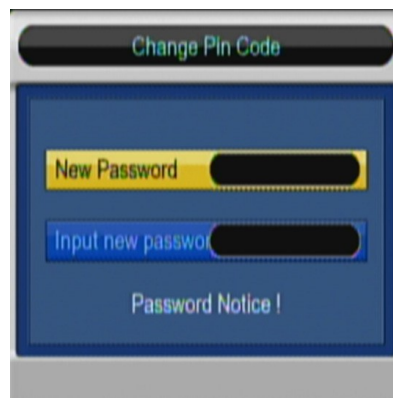


Figure 5-6 Change PIN Code

If you forget the new password – it can ONLY be reset during normal business hours.

Note that user(s) must remember the number if a change is made. Call your operator for help if you forget the password.

Note that the access password will be restored to the default value of 123456 when running Restore Default procedure.

5.4 ADVANCE SETTING

Select and press **OK** to enter the Parameter menu option in the SETTING menu and the Parameter menu will be shown as:

Language Setting	Spanish/English/Chinese
Audio Setting	Select audio track mode among Mono, stereo, left, right.
Display Setting	Transparency of menu setting.
Video Setting	TV mode. Ie 1080p/1080i
Aspect Ratio Setting	Aspect ration 16:9 / 4:3
PVR Setting	PVR file setting /Time-shift setting
Zoom Mode	Letter Box /Pan Scan/Full Screen
Factory Reset	Reset System of STB

5.4.1 Language Setting

Press **Left** or **Right** to change the setting, Press **OK** to save the changes and or press **QUIT** to quit without saving the settings. Language option: 'English', 'Spanish' and 'Chinese'.



Figure 5-7 Language Setting

5.4.2 Audio Setting

Press **Left** or **Right** to select which one you want to set.

Press **Left** or **Right** to change the setting, Press **OK** to save the changes or press **QUIT** to quit without saving the changes.



Figure 5-8 Audio parameter change

5.4.3 Display Setting

Press or to change the setting, Press to save the changes and or press to quit without saving the settings.



Figure 5-9 Display Setting

5.4.4 Video Setting (Please DO NOT change!!)

Press or to change the video output format. Press to save the change or press to quit without saving the change. **NOTE: Changes here can render a “No Picture” condition.



Figure 5-10 Video setting

5.4.5 Aspect Ratio Setting (Should be set to FULL SCREEN)

Press or to choose the aspect ratio, Press to save the changes or press to quit without saving the changes.



Figure 5-11 Aspect ration Setting

5.4.6 PVR setting

Press or to choose the language for the menu. Press to save the changes or press to quit without saving the change.

PVR File Style	File style TS/PS
PVR File Size	File size 512M/1G
Preferred Storage	Storage setting. Usb1/usb2/card
PVR File Delete	Delete all PVR files.
Timeshift	Pause / Off / Auto
Timeshift Length	Auto/30m/1h/2h
Timeshift to Record	On / Off

5.4.7 PVR File Style

Press or to choose the style for the menu. Press to save the changes or press to quit without saving the change.



Fig 5-12 PVR File Style

5.4.8 PVR File Size

Press or to choose the size for the menu. Press to save the changes or press to quit without saving the change.



Fig 5-13 PVR File Size

5.4.9 Preferred Storage

Press or to choose the storage for the menu. Press to save the changes or press to quit without saving the change. **NOTE: ONLY USE USB1**



Fig 5-14 Preferred Storage

5.4.10 PVR File Delete

Press to delete all the PVR files or press to quit to **PVR Setting**.

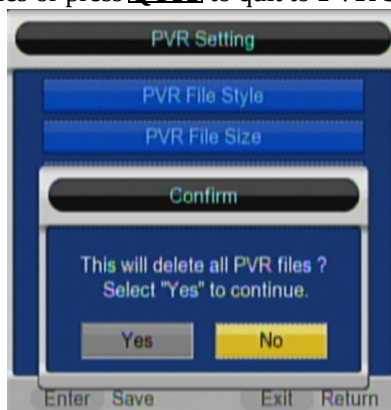


Fig 5-15 PVR File Delete

5.4.11 Timeshift (Setting button for Timeshift)

Press or to choose the **Timeshift** from the menu. Press to save the changes or press to quit without saving the change.



Fig 5-16 Timeshift

5.4.12 Timeshift Length (Length of time it will record once started)

Press or to choose the **Timeshift Length** for the menu. Press to save the changes or press to quit without saving the change.



Fig 5-17 Timeshift Length

5.4.13 Timeshift to Record (To enable and disable Timeshift)

Press or to choose the **Timeshift to Record** for the menu. Press to save the changes or press to quit without saving the change.



Fig 5-18 Timeshift to Record

5.4.14 Zoom Mode (Aspect Ratio)

Press or to choose the **Zoom Mode** for the menu. Press to save the changes or press to quit without saving the change.



Figure 5-19 Zoom Mode

5.4.15 Factory Reset (Removes ALL settings, timer recording data, and channels)

In order to enter default menu, password verification is need. The default password is: 123456.

Press button **OK** to confirm. (STB will need to be set up again to function – **CALL 734-1424**)

NOTE: EVERYTHING will be cleared, be careful if you don't intend to delete all the data!

5.5 SYSTEM INFO

Press **QUIT** to quit and return to **System Setting** menu.

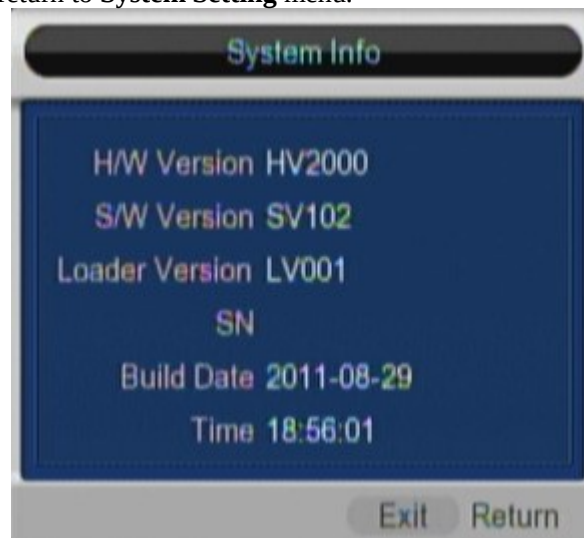


Figure 5-20 System Info

5.6 SIGNAL TEST

Press **QUIT** to quit and return to **System Setting** menu.

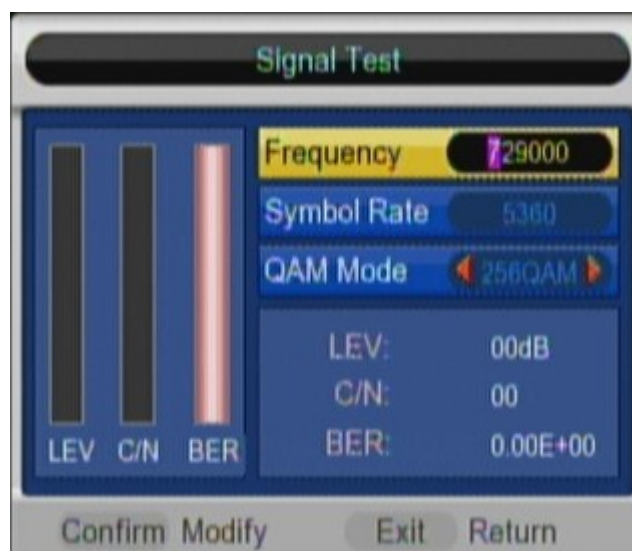


Figure 5-21 Signal Test

5.7 CA SETTING

Select and press **OK** to enter the Parameter menu option in the **CA SETTING** menu and the Parameter menu will be shown as:

Subscription right	View the subscription information of smart card
Parental control	Set the maturity rating of the smart card.
Change CA PIN	Change the PIN code of smart card.
About the CA	It shows the information of the CA
CA message	CA

5.7.1 Subscription Rights

Press the OK button, the **Subscription Rights** menu will be shown. From the menu, the user can learn the subscription detail of smart card.



Figure 5-22 Subscription Rights menu

5.7.2 Parental Control (not supported on all channels)

This menu sets the maturity rating of the smart card. Press or can set the maturity level.



Figure 5-23 Parental control

5.7.3 Change CA PIN

This menu changes the PIN code of smart card. The default password is: 1234.



Figure 5-24 Change CA PIN menu

5.7.4 CA message

This menu shows the email sent from CA system.

6. BOOK MANAGER (Manage Timer Recordings)

Press **QUIT** to quit and return to **BOOK MANAGER** menu **RED** will delete the item highlight.



Figure 6-1 Book manager

7. ENTERTAINMENT

There are five games provided in the receiver for your enjoyment.



Figure 7-1 Entertainment

7.1 BOX MAN

Play: Press **MENU** under normal playing mode and select **System Setting->Entertainment->Box Man** step by step to play the game.

Press direction keys Up, Down, Left and right to move the cartoon man here and there.

Press **MENU** to replay the game of current grade.

Press **OK** to play senior grade games.

Choose <EXIT GAME> to exit the game.

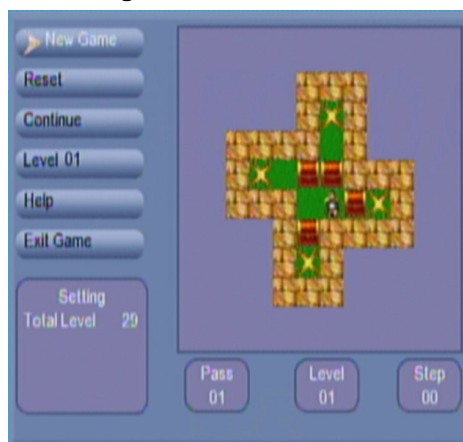


Fig 7-2 Box Man page

7.2 BURNING TETRIS

Play: Press **MENU** under normal playing mode and select **System Setting->Entertainment -> Burning Tetris** step by step to play the game.

Press the Left or Right key to move the square left or right

Press the Up key to change the direction.

Press the Down key to accelerate the square.

Press **MENU** to replay the game.

Press **OK** to pause or play the game.

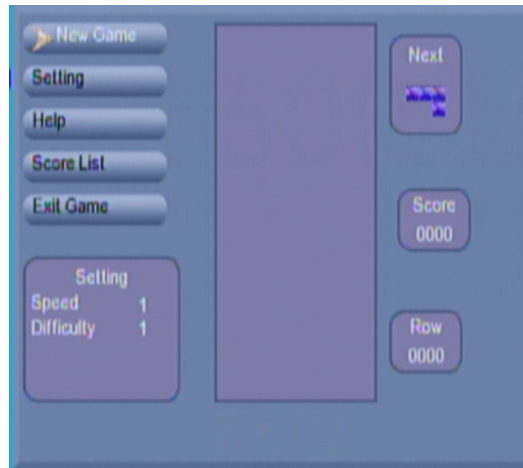


Fig 7-3 Burning Tetris page

Choose <EXIT GAME> to exit the game.

7.3 HIT RAT

Play: Press **MENU** under normal playing mode and select **System Setting->Entertainment ->Hit Rat** step by step to play the game.

The direction keys compose 1,2,3,4,5,6,7,8,9 VS Top Left, Top Mid, Top Right, Mid Left, Mid Right, Down Left, Down Mid, Down Right.

Choose <EXIT GAME> to exit the game.



Fig 7-4 Hit Rat page

7.4 GO BANG

Play: Press **MENU** under normal playing mode and select **System Setting->Entertainment ->Go Bang** step by step to play the game.

The direction keys compose 1,2,3,4,5,6,7,8,9 VS Top Left, Top Mid, Top Right, Mid Left, Mid Right, Down Left, Down Mid, Down Right.

Choose <EXIT GAME> to exit the game.



Fig 7-5 Go Bang

7.5 SUDOKU

Play: Press **MENU** under normal playing mode and select **System Setting->Entertainment ->Sudoku** step by step to play the game.

The direction keys compose 1,2,3,4,5,6,7,8,9 VS Top Left, Top Mid, Top Right, Mid Left, Mid Right, Down Left, Down Mid, Down Right.

Choose <EXIT GAME> to exit the game.

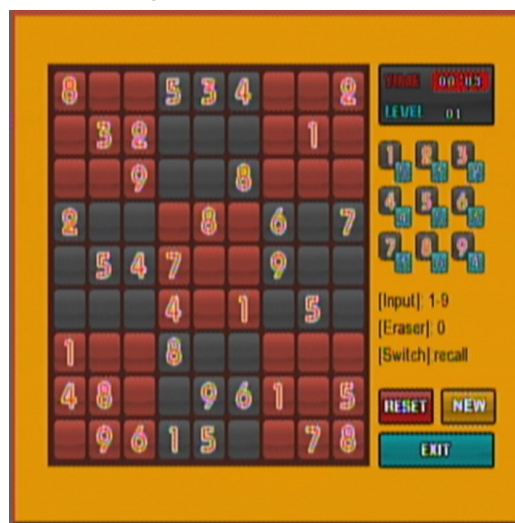


Fig 7-6 Sudoku

8. HELP

There four items about help information. These just describe the menu items.

9. MEDIA PLAYER

The Set top box integrates powerful functions to support USB and SD/MMC card reader. You can connect USB memory stick, an MP3 player, or SD/MMC card reader via the attached USB. At present, system can support common form of media play.

9.1 BASIC FUNCTIONS

You can enjoy all music, photos, and cinema. Insert USB memory stick or MP3 player, press **MENU** to enter the main menu, and then choose **<MOVIE>**, **<MUSIC>** or **<PHOTO>** to enter media playing mode as show in the following figure.

There are 4 hot key on remote to enter the MOVIE/MUSIC/PHOTO/PVR playback menu.

Press **OK** to choose folder or played file.

Movie must be played under menu item **<MOVIE>**.

Music must be played under menu item **<MUSIC>**.

Photo picture must be played under menu item **<PHOTO>**.

Press **QUIT** to exit media mode.



Figure 9-1 Movie playing

9.2 KEY DEFINITION

MUTE, **ZOOM** is the same as Digital TV definition under media mode.

LANGUAGE is used to switch among left, right, and stereo.

FAST BACKWARD: press (**<<**) to fast backward playback.

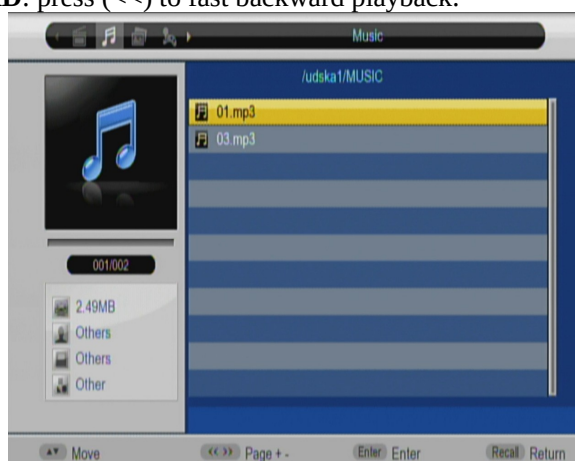


Figure 9-2 Music playing

FAST FORWARD: press **LIST** (>>) to fast forward playback.

NEXT TRACK: press **TEXT** (>>|) to go to the next track.

PREVIOUS TRACK: press **LANG** (|<<) to go to previous track.

REPEAT PLAYBACK MODE: Press **REPEAT/SCAN** to choose repeat playback mode.

SEQUENCE PLAYBACK: During **PHOTO** (JPEG and BMP) playback, press **TV/RADIO** (>) to enter sequence playback mode.

Press **Left Arrow** or **Right Arrow** to rotate the photos under full screen browse.

Press  or  to view lens photo vertically or horizontally under full screen browse.

Press **EXIT** to exit full-screen browse

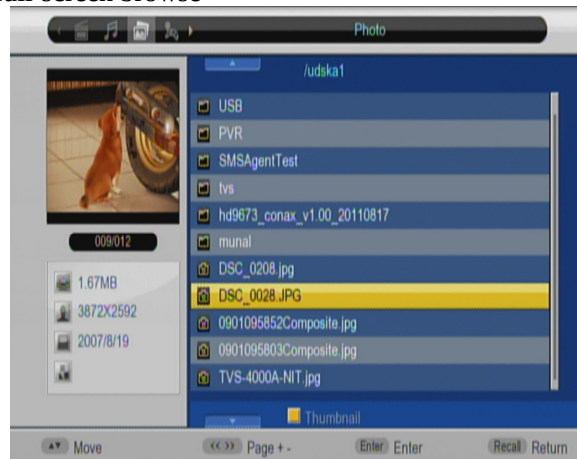


Figure 9-3 Photo playing

10. APPENDIX A TECHNICAL SPECIFICATION

TUNER

RF Input type: F-type connector
Input Impedance: 75 ohm
Min signals level: -15 dBmV
Max signals level: 20 dBmV
Input Frequency: 47~862MHz
Bandwidth: 6 / 7/ 8MHz
Catching Frequency: $\pm 150\text{KHz}$
Input reflection: ≥ 8
Decoding: 16, 32, 64, 128, 256 QAM
Support scope: 3.6 ~ 6.952 Mbaud
RF Loop through Type: F-type connector
Output impedance: 75Ω

PROCESSOR AND MEMORY

CPU: 300MHz MIPS chipset
Flash Memory: 4MB
Memory: DDRII 64MB
HDMI: HD digital display, multi format capable (1080P, 1080I, 720P, 480P, 480I)
Y/Pb/Pr : Analog HD output
RCA: Analog SD output
SPDIF: Digital audio output
USB: High-Speed USB 2.0 Port
Front Panel: Standby/VOL+/- CH+/-, MENU, OK, LED/IR

AUDIO DECODING

Decoding: MPEG 1/2/3, AC3, AAC
Audio output: Stereo, mono, dual, SPDIF optical digital output, PCM, LPCM, WMA, MPEG 1/2 layer 1/2

VIDEO DECODING

Transport Stream: ISO/IEC 13818-1 MPEG-2, H.264/MPEG-4 AVC
Profile Level: Up to H.264 HD, HP@L4.1, Up to MPEG-2 HD, MP@HL
Aspect Ratio: 16:9 / 4:3 Letter-Box, Pan & Scan
Video Resolution: 1920x1080P/i, 1280x720p, 720x576p/i
Video Format: PAL, NTSC.
Video output standard: Output Scope : $1.0 \pm 0.05\text{V Vp-p}$

GENERAL

Operating Temp. : $-5\text{--}+45^{\circ}\text{C}$
Power consumption: 20 W Max.
Power supply : 110 VAC
Weight : 0.9 Kg
Dimension : 255 mm (W) x 180mm (D) x 38mm (H)

11. APPENDIX B TROUBLESHOOTING

If you find a problem with the STB, please check the table below for an immediate solution.

PROBLEM	PROBABLE CAUSE	RESOLUTION
Power on STB, but no display on TVscreen	Please check the connection to your TV. A HDMI connection is used for this HD STB.	Make sure the TV is set to the proper Input. It will be HDMI , not a channel.
"No signal"	Is GREEN lock light on front?	There is no signal to STB
	Is the CABLE outlet active?	Connect to another CABLE outlet
	The single channel has problems	Try another channel
	CABLE not active for location	Make sure date of CABLE hookup correct
	The STB set-up is incorrect	CALL 734-1424 for correct installation procedure in the System Settings menu
"No access"	The channel may not be one in your purchased package	Make sure the channel is one you are paying for. If in doubt, CALL 734-1424 to verify you package
External USB Hard disk or USB device can't be found	Did you power off the PVR when it's recording?	NOTE: Do not power off when the USB device is working. Do not power on and power off the STB frequently and quickly.
	Did you power off the PVR when it playing or file reading?	
	Did you power on and power off frequently and quickly?	
USB device can't be found by STB	The USB device is not supported by STB	The USB can't support a XD memory stick, Some USB device can't be found because of compatibility problems.
	Un-support disk partition	The STB can only support FAT16, FAT32 disk partition

TIPS:

Not all troubleshooting variables are listed on the table above.

If you refer to this troubleshooting guide but have no resolution to the problem

Please contact **COAXIAL CABLE TV SUPPORT @ 734-14242** for technical support.

NO TOOLS are **EVER** required for connecting the STB: resulting damages are the customers responsibility!